



- 1 -

SEQUENCE LISTING

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<120> Inducing Cellular Responses to Hepatitis C Virus Using Peptide and
Nucleic Acid Compositions

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<400> 2947

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<210> 2948

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<213> Hepatitis C Virus

<400> 2997

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<400> 3001

Trp	Glu	Ser	Val	Phe	Thr	Gly	Leu	Thr	His	Ile	Asp	Ala	His	Phe
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Gly Gln Ile Val Gly Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro
1 5 10 15

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<213> Hepatitis C Virus

<400> 3004

Gln Tyr Leu Val Gly Ser Gln Leu Pro Cys Glu Pro Glu Pro Asp
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<210> 3005

<211> 15

<212> PRT

<213> Hepatitis C Virus

<400> 3005

Ala Leu Val Val Gly Val Val Cys Ala Ala Ile Leu Arg Arg His
1 5 10 15

<210> 3006

<211> 15

<212> PRT

<213> Hepatitis C Virus

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Phe Asp Ser Val Ile Asp Cys Asn Thr Cys Val Thr Gln Thr Val
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<213> Hepatitis C Virus

<400> 3007

Leu Gly Lys Val Ile Asp Thr Leu Thr Cys Gly Phe Ala Asp Leu
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<210> 3008

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<400> 3008

Val Gly Gly Val Leu Ala Ala Leu Ala Ala Tyr Cys Leu Thr Thr
1 5 10 15

<210> 3009

<211> 15

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<213> Hepatitis C Virus

<400> 3009

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<213> Hepatitis C Virus

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Gly	Val	Arg	Val	Leu	Glu	Asp	Gly	Val	Asn	Tyr	Ala	Thr	Gly	Asn
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<213> Hepatitis C Virus

<400> 3011

Lys	Val	Leu	Val	Leu	Asn	Pro	Ser	Val	Ala	Ala	Thr	Leu	Gly	Phe
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<213> Hepatitis C Virus

<400> 3012

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<212> PRT

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<400> 3013

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<400> 3014

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Ser Thr Trp Val Leu Val Gly Gly Val Leu Ala Ala Leu Ala Ala
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<211> 15

<212> PRT

<213> Hepatitis C Virus

<400> 3016

Gly Tyr Lys Val Leu Val Leu Asn Pro Ser Val Ala Ala Thr Leu
1 5 10 15

<210> 3017

<211> 15

<212> PRT

<213> Hepatitis C Virus

<400> 3017

Glu Asp Leu Val Asn Leu Leu Pro Ala Ile Leu Ser Pro Gly Ala
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Thr His Tyr Val Pro Glu Ser Asp Ala Ala Ala Arg Val Thr Gln
1 5 10 15

<210> 3019

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<213> Hepatitis C Virus

<400> 3019

Leu Glu Val Val Thr Ser Thr Trp Val Leu Val Gly Gly Val Leu
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<212> PRT

<213> Hepatitis C Virus

<400> 3020

Asp Val Val Val Val Ala Thr Asp Ala Leu Met Thr Gly Tyr Thr
1 5 10 15

<210> 3021

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<213> Hepatitis C Virus

<400> 3021

Val Val Gly Val Val Cys Ala Ala Ile Leu Arg Arg His Val Gly

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Val	Gly	Val	Val
Cys	Ala	Ala	Ile
Leu	Arg	Arg	
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Val	Leu	Ala	Thr
Ala	Thr	Pro	Pro
Gly	Ser	Val	
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Cys	Gly	Pro	Val
Tyr	Cys	Phe	Thr
Pro	Ser	Pro	Val
Val	Val	Val	Gly
1	5	10	15
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Ala	Gly	Trp	Leu
Leu	Ser	Pro	Arg
Gly	Ser	Arg	
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Ala	Arg	Met	Ile
Leu	Met	Thr	His
Phe	Phe	Ser	
1	5	10	15
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Gly	Ala	Asp	Thr
Ala	Ala	Cys	Gly
Asp	Ile	Ile	
1	5	10	15

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Arg Pro Ser Trp Gly Pro Thr Asp Pro Arg Arg Arg Ser Arg Asn
1 5 10 15

<210> 3029
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1 5 10 15

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Ser Lys Gly Trp Arg Leu Leu Ala Pro Ile Thr Ala Tyr Ala Gln
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<210> 3031
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Ser Tyr Thr Trp Thr Gly Ala Leu Ile Thr Pro Cys Ala Ala Glu
1 5 10 15

<210> 3032
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<400> 3032
Gly Cys Ala Trp Tyr Glu Leu Thr Pro Ala Glu Thr Thr Val Arg
1 5 10 15

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<400> 3034
Gly Pro Val Tyr Cys Phe Thr Pro Ser Pro Val Val Val Gly Thr
1 5 10 15

<210> 3035
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<400> 3035
Cys Glu Cys Tyr Asp Ala Gly Cys Ala Trp Tyr Glu Leu Thr Pro
1 5 10 15

<210> 3036
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<400> 3036
Gly Gly Ala Tyr Asp Ile Ile Ile Cys Asp Glu Cys His Ser Thr
1 5 10 15

<210> 3037
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<400> 3037
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1 5 10 15

<210> 3038
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<400> 3038
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1 5 10 15

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<400> 3039
Gly Ser Ser Tyr Gly Phe Gln Tyr Ser Pro Gly Gln Arg Val Glu
1 5 10 15

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<400> 3040
Tyr Ser Thr Tyr Gly Lys Phe Leu Ala Asp Gly Gly Cys Ser Gly
1 5 10 15

<210> 3041
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<400> 3041
Ala Gln Gly Tyr Lys Val Leu Val Leu Asn Pro Ser Val Ala Ala
1 5 10 15

<210> 3042
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1 5 10 15

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Pro Val Ser Tyr Leu Lys Gly Ser Ser Gly Gly Pro Leu Leu Cys
1 5 10 15

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<400> 3044
Arg Val Tyr Tyr Leu Thr Arg Asp Pro Thr Thr Pro Leu Ala Arg
1 5 10 15

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1 5 10 15

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1 5 10 15

<210> 3047
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1 5 10 15

<210> 3049
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1 5 10 15

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1 5 10 15

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1 5 10 15

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Phe Gly Ala Tyr Met Ser Lys Ala His
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<210> 3053
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<400> 3053
Phe Gly Cys Thr Trp Met Asn Ser Thr
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<400> 3054
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1 5

<210> 3055
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<210> 3056
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1 5

<210> 3057
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<210> 3059

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<210> 3060

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<400> 3060

Phe Ser Leu Asp Pro Thr Phe Thr Ile
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<210> 3061

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Phe Thr Glu Ala Met Thr Arg Tyr Ser
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<210> 3062

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<400> 3062

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<210> 3063

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1 5

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1 5

<210> 3073
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1 5

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1 5

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1 5

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<400> 3080
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1 5

<210> 3081
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<400> 3081
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1 5

<210> 3082
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<210> 3083

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Leu Asp Pro Thr Phe Thr Ile Glu Thr

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Leu Glu Leu Ile Thr Ser Cys Ser Ser

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Leu Glu Val Val Thr Ser Thr Trp Val

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Leu Phe Leu Leu Leu Ala Asp Ala Arg

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1 5

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Leu Gly Val Arg Ala Thr Arg Lys Thr
1 5

<210> 3092
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<400> 3092
Leu Gly Val Arg Val Cys Glu Lys Met
1 5

<210> 3093
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1 5

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1 5

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1 5

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Leu Ile Ala Phe Ala Ser Arg Gly Asn
1 5

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Leu Ile Glu Ala Asn Leu Leu Trp Arg
1 5

<210> 3099
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<400> 3099
Leu Ile Phe Cys His Ser Lys Lys Lys
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<210> 3100
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<400> 3100
Leu Ile Thr Ser Cys Ser Ser Asn Val
1 5

<210> 3101
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<400> 3101
Leu Leu Ala Leu Leu Ser Cys Leu Thr
1 5

<210> 3102
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Leu Leu Phe Leu Leu Leu Ala Asp Ala
1 5

<210> 3103
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<400> 3103
Leu Leu Phe Asn Ile Leu Gly Gly Trp
1 5

<210> 3104
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<400> 3104
Leu Leu Leu Ala Asp Ala Arg Val Cys
1 5

<210> 3105
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<400> 3105
Leu Leu Pro Ala Ile Leu Ser Pro Gly
1 5

<210> 3106
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Leu Met Gly Tyr Ile Pro Leu Val Gly
1 5

<210> 3107

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<400> 3107
Leu Asn Pro Ser Val Ala Ala Thr Leu
1 5

<210> 3108
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<400> 3108
Leu Pro Ala Ile Leu Ser Pro Gly Ala
1 5

<210> 3109
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<400> 3109
Leu Pro Ala Leu Ser Thr Gly Leu Ile
1 5

<210> 3110
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<400> 3110
Leu Pro Arg Arg Gly Pro Arg Leu Gly
1 5

<210> 3111
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<400> 3111
Leu Arg Asp Leu Ala Val Ala Val Glu
1 5

<210> 3112
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<400> 3112
Leu Arg Lys Leu Gly Val Pro Pro Leu
1 5

<210> 3113
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<400> 3113
Leu Ser Ala Phe Ser Leu His Ser Tyr
1 5

<210> 3114
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<400> 3114
Leu Ser Ala Pro Ser Leu Lys Ala Thr
1 5

<210> 3115
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<400> 3115
Leu Ser Asn Ser Leu Leu Arg His His
1 5

<210> 3116
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Leu Ser Pro Gly Ala Leu Val Val Gly
1 5

<210> 3117
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<400> 3117
Leu Ser Pro Leu Leu Leu Ser Thr Thr
1 5

<210> 3118
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<400> 3118
Leu Ser Pro Arg Gly Ser Arg Pro Ser
1 5

<210> 3119
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<400> 3119

Leu Ser Thr Gly Leu Ile His Leu His
1 5

<210> 3120

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<212> PRT

<213> Hepatitis C Virus

<400> 3120

Leu Thr Cys Gly Phe Ala Asp Leu Met
1 5

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<400> 3121

Leu Thr His Ile Asp Ala His Phe Leu
1 5

<210> 3122

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<400> 3122

Leu Thr Ser Met Leu Thr Asp Pro Ser
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<210> 3123

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<400> 3123

Leu Val Ala Tyr Gln Ala Thr Val Cys
1 5

<210> 3124

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<400> 3124

Leu Val Asp Ile Leu Ala Gly Tyr Gly
1 5

<210> 3125

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Val Ala Gly Ala Leu Val Ala Phe Lys
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<211> 11

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Ser Thr Leu Pro Glu Thr Tyr Val Val Arg Arg
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<223> HBV pol 646-654 C4->A

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<223> HIV gp 586-593 Y1->F, Q5->Y

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Ala Glu Met Gly Lys Tyr Ser Phe Tyr
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Tyr Arg His Asp Gly Gly Asn Val Leu
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<210> 3302
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<220>
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<400> 3302
Tyr Arg His Asp Gly Gly Asn Val Leu
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Ser Gly Pro Ser Asn Thr Tyr Pro Glu Ile
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Arg Gly Tyr Val Phe Gln Gly Leu
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<210> 3305
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<223> HIV-IIIB ENV G4->Y

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Arg Gly Pro Tyr Arg Ala Phe Val Thr Ile
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<210> 3306

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Lys Phe Asn Pro Met Lys Thr Tyr Ile
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Tyr Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr
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<210> 3312
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Tyr Ala Arg Phe Gln Ser Gln Thr Thr Leu Lys Gln Lys Thr
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Tyr Ala Arg Phe Gln Ser Gln Thr Thr Leu Lys Gln Lys Thr
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<223> Tet. tox. 830-843

<400> 3316

Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
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<210> 3317

<211> 14

<212> PRT

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<220>

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<400> 3317

Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
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<210> 3318

<211> 14

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<223> Tet. tox. 830-843

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Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
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<210> 3319

<211> 14

<212> PRT

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<220>

<223> Tet. tox. 830-843

<400> 3319

Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
1 5 10

<210> 3320

<211> 14

<212> PRT
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<220>
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Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
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<210> 3321
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<210> 3322
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<212> PRT
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<220>
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<400> 3322
Gln Tyr Ile Lys Ala Asn Ala Lys Phe Ile Gly Ile Thr Glu
1 5 10

<210> 3323
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Gln Tyr Ile Lys Ala Asn Ala Lys Phe Ile Gly Ile Thr Glu
1 5 10

<210> 3324
<211> 13
<212> PRT
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<220>
<223> HA 307-319

<400> 3324
Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr
1 5 10

<210> 3325
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<220>
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Asn Gly Gln Ile Gly Asn Asp Pro Asn Arg Asp Ile Leu
1 5 10

<210> 3326
<211> 14
<212> PRT
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<400> 3326
Tyr Ala Arg Phe Gln Ser Gln Thr Thr Leu Lys Gln Lys Thr
1 5 10

<210> 3327
<211> 17
<212> PRT
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<220>
<223> ROIV

<400> 3327
Tyr Ala His Ala Ala His Ala Ala His Ala Ala His Ala Ala His Ala
1 5 10 15
Ala

<210> 3328
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3328
Tyr Ala His Ala Ala His Ala Ala His Ala Ala His Ala Ala His Ala
1 5 10 15
Ala

<210> 3329
<211> 17
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<213> Artificial Sequence

<220>

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<400> 3329

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<211> 17

<212> PRT

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<223> HEL 46-61

<400> 3330

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Arg

<210> 3331

<211> 17

<212> PRT

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<220>

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<400> 3331

Tyr	Ala	His	Ala	Ala	His	Ala	Ala	His	Ala	Ala	His	Ala	Ala	His	Ala
1				5				10				15			

Ala

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<212> PRT

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<223> ROIV

<400> 3332

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1				5				10				15			

Ala

<210> 3333

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<212> PRT

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<223> Lambda repressor 12-26

<400> 3333

Tyr Leu Glu Asp Ala Arg Arg Lys Lys Ala Ile Tyr Glu Lys Lys Lys
1 5 10 15

<210> 3334

<211> 16

<212> PRT

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<220>

<223> Lambda repressor 12-26

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Tyr Leu Glu Asp Ala Arg Arg Lys Lys Ala Ile Tyr Glu Lys Lys Lys
1 5 10 15

<210> 3335

<211> 10

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<213> Hepatitis C Virus

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Leu Leu Phe Asn Ile Leu Gly Gly Trp Val
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<210> 3336

<211> 9

<212> PRT

<213> Hepatitis C Virus

<400> 3336

Phe Leu Leu Leu Ala Asp Ala Arg Val
1 5

<210> 3337

<211> 9

<212> PRT

<213> Hepatitis C Virus

<400> 3337

Tyr Leu Val Ala Tyr Gln Ala Thr Val
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<210> 3338

<211> 10

<212> PRT

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<400> 3338

Arg Leu Ile Val Phe Pro Asp Leu Gly Val
1 5 10

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Asp Leu Met Gly Tyr Ile Pro Leu Val
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Trp Met Asn Arg Leu Ile Ala Phe Ala
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<210> 3341
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Val Leu Val Gly Gly Val Leu Ala Ala
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<210> 3342
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<400> 3342
His Met Trp Asn Phe Ile Ser Gly Ile
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<210> 3343
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<400> 3343
Ile Leu Ala Gly Tyr Gly Ala Gly Val
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<210> 3344
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<400> 3344
Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu
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Leu Leu Phe Leu Leu Leu Ala Asp Ala
1 5

<210> 3346
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<400> 3346
Tyr Leu Val Thr Arg His Ala Asp Val
1 5

<210> 3347
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<400> 3347
Ile Leu Ser Pro Gly Ala Leu Val Val
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<400> 3348
Ala Leu Ser Thr Gly Leu Ile His Leu
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His Leu His Gln Asn Ile Val Asp Val
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Arg Leu His Gly Leu Ser Ala Phe Ser Leu
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<210> 3365
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Arg Leu Gly Val Arg Ala Thr Arg Lys
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<210> 3366
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<400> 3366
Gln Leu Phe Thr Phe Ser Pro Arg Arg
1 5

<210> 3367
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Arg Met Tyr Val Gly Gly Val Glu His Arg
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Leu Ile Phe Cys His Ser Lys Lys Lys
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Gly Val Ala Gly Ala Leu Val Ala Phe Lys
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<400> 3370
Val Ala Gly Ala Leu Val Ala Phe Lys
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<210> 3371
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Leu Gly Phe Gly Ala Tyr Met Ser Lys
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<400> 3372
Trp Met Asn Ser Thr Gly Phe Thr Lys
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Thr Leu Gly Phe Gly Ala Tyr Met Ser Lys
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Ala Val Cys Thr Arg Gly Val Ala Lys
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Glu Val Phe Cys Val Gln Pro Glu Lys
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Ala Ala Cys Asn Trp Thr Arg Gly Glu Arg
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His Leu His Ala Pro Thr Gly Ser Gly Lys
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His Leu Ile Phe Cys His Ser Lys Lys Lys
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His Leu Ile Phe Cys His Ser Lys Lys
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Leu Pro Gly Cys Ser Phe Ser Ile Phe
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Leu Pro Ala Leu Ser Thr Gly Leu Ile
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<400> 3382
Lys Pro Thr Leu His Gly Pro Thr Pro Leu
1 5 10

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<400> 3383
Ala Pro Thr Leu Trp Ala Arg Met Ile Leu
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Ser Pro Arg Gly Ser Arg Pro Ser Trp
1 5

<210> 3385
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Gln Pro Arg Gly Arg Arg Gln Pro Ile
1 5

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Leu Pro Arg Arg Gly Pro Arg Leu Gly Val
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Ser Pro Gly Gln Arg Val Glu Phe Leu
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Asp Pro Arg Arg Arg Ser Arg Asn Leu
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Ala Pro Thr Leu Trp Ala Arg Met Ile
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Pro Pro Val Val His Gly Cys Pro Leu
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Ser Pro Gly Ala Leu Val Val Gly Val Val
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Thr Pro Leu Leu Tyr Arg Leu Gly Ala Val
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Ile Pro Phe Tyr Gly Lys Ala Ile
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Leu Pro Arg Arg Gly Pro Arg Leu
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Leu Pro Cys Ser Phe Thr Thr Leu Pro Ala
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Leu Pro Gly Cys Ser Phe Ser Ile
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Ala Pro Leu Gly Gly Ala Ala Arg Ala Leu
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Arg Pro Ser Gly Met Phe Asp Ser Ser Val
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<400> 3402

Lys Pro Ala Arg Leu Ile Val Phe
1 5

<210> 3403

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<400> 3403

Asn Pro Ala Ile Ala Ser Leu Met Ala Phe
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Ala Pro Thr Leu Trp Ala Arg Met Ile Leu Met
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Leu Pro Tyr Ile Glu Gln Gly Met
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Leu Pro Gly Cys Ser Phe Ser Ile Phe
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Leu Pro Gly Cys Ser Phe Ser Ile Ile
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Phe Pro Gly Cys Ser Phe Ser Ile Phe
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Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser
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Gly Tyr Lys Val Leu Val Leu Asn Pro Ser Val Ala Ala Thr Leu
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Val Leu Val Leu Asn Pro Ser Val Ala Ala Thr Leu Gly Phe Gly
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Ile	Phe	Cys	His
Ser	Lys	Lys	Lys
Cys	Asp	Glu	
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Thr	Val	Asp	
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Ser	Gln	Thr	
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Ala	Gln	Ala	
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His	Gly	Pro	Thr
Pro	Leu	Leu	Tyr
Arg	Leu	Gly	
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1 5 10 15

<210> 3539
<211> 15
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1 5 10 15

<210> 3540
<211> 15
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<400> 3540
Val Val Val Val Ala Thr Asp Ala Leu Met Thr Gly Tyr Thr Gly
1 5 10 15

<210> 3541
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Thr Val Asp Phe Ser Leu Asp Pro Thr Phe Thr Ile Glu Thr Thr
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<210> 3542
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Asp Ser Ser Val Leu Cys Glu Cys Tyr Asp Ala Gly Cys Ala Trp
1 5 10 15

<210> 3543
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1 5 10 15

<210> 3544

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<210> 3546
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1 5 10 15

<210> 3547
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<210> 3548
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Met Pro Pro Leu Glu Gly Glu Pro Gly Asp Pro Asp Leu Ser Asp
1 5 10 15

<210> 3549
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<210> 3550
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<212> PRT
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1 5 10 15

<210> 3551
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Val Ala Ala Thr Leu Gly Phe Gly Ala Tyr
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<400> 3552
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1 5 10 15

<210> 3553
<211> 15
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<400> 3553
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1 5 10 15

<210> 3554
<211> 20
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Val Ala Ala Thr
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<210> 3555
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<400> 3555
Gly Tyr Lys Val Leu Val Leu Asn Pro Ser Val Ala Ala Thr
1 5 10

<210> 3556
<211> 20
<212> PRT
<213> Hepatitis C Virus

<400> 3556
Gly Tyr Lys Val Leu Val Leu Asn Pro Ser Val Ala Ala Thr Leu Gly
1 5 10 15
Phe Gly Ala Tyr
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<210> 3557
<211> 22
<212> PRT
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<400> 3557
Gly Glu Gly Ala Val Gln Trp Met Asn Arg Leu Ile Ala Phe Ala Ser
1 5 10 15
Arg Gly Asn His Val Ser
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<210> 3558
<211> 15
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Met Asn Arg Leu Ile Ala Phe Ala Ser Arg Gly Asn His Val Ser
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<210> 3559
<211> 21
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<400> 3559
Gly Glu Gly Ala Val Gln Trp Met Asn Arg Leu Ile Ala Phe Ala Ser
1 5 10 15
Arg Gly Asn His Val
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<210> 3560
<211> 15
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1 5 10 15

<210> 3561
<211> 15
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<400> 3561

Gly Ser Ser Tyr Gly Phe Gln Tyr Ser Pro Gly Gln Arg Val Glu
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<210> 3562

<211> 15

<212> PRT

<213> Hepatitis C Virus

<400> 3562

Ala Ser Cys Leu Arg Lys Leu Gly Val Pro Pro Leu Arg Val Trp
1 5 10 15

<210> 3563

<211> 20

<212> PRT

<213> Hepatitis C Virus

<400> 3563

Asn Phe Ile Ser Gly Ile Gln Tyr Leu Ala Gly Leu Ser Thr Leu Pro
1 5 10 15
Gly Asn Pro Ala
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<210> 3564

<211> 15

<212> PRT

<213> Hepatitis C Virus

<400> 3564

Val Val Val Val Ala Thr Asp Ala Leu Met Thr Gly Tyr Thr Gly
1 5 10 15

<210> 3565

<211> 15

<212> PRT

<213> Hepatitis C Virus

<400> 3565

Thr Val Asp Phe Ser Leu Asp Pro Thr Phe Thr Ile Glu Thr Thr
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<210> 3566

<211> 15

<212> PRT

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<400> 3566

Gly Arg His Leu Ile Phe Cys His Ser Lys Lys Lys Cys Asp Glu
1 5 10 15

<210> 3567

<211> 10

<212> PRT

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<400> 3567

Leu Leu Phe Asn Ile Leu Gly Gly Trp Val
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<210> 3568

<211> 9

<212> PRT

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<400> 3568

Phe Leu Leu Leu Ala Asp Ala Arg Val
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<210> 3569

<211> 9

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<213> Hepatitis C Virus

<400> 3569

Tyr Leu Val Ala Tyr Gln Ala Thr Val
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<210> 3570

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<213> Hepatitis C Virus

<400> 3570

Arg Leu Ile Val Phe Pro Asp Leu Gly Val
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<210> 3571

<211> 9

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<400> 3571

Asp Leu Met Gly Tyr Ile Pro Leu Val
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<210> 3572

<211> 9

<212> PRT

<213> Hepatitis C Virus

<400> 3572

Trp Met Asn Arg Leu Ile Ala Phe Ala
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<210> 3573

<211> 9

<212> PRT

<213> Hepatitis C Virus

<400> 3573
Val Leu Val Gly Gly Val Leu Ala Ala
1 5

<210> 3574
<211> 9
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<400> 3574
His Met Trp Asn Phe Ile Ser Gly Ile
1 5

<210> 3575
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<400> 3575
Ile Leu Ala Gly Tyr Gly Ala Gly Val
1 5

<210> 3576
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<400> 3576
Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu
1 5 10

<210> 3577
<211> 9
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<400> 3577
Leu Leu Phe Leu Leu Leu Ala Asp Ala
1 5

<210> 3578
<211> 9
<212> PRT
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<400> 3578
Tyr Leu Val Thr Arg His Ala Asp Val
1 5

<210> 3579
<211> 9
<212> PRT
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<400> 3579
Lys Thr Ser Glu Arg Ser Gln Pro Arg
1 5

<210> 3580
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<400> 3580
Arg Leu Gly Val Arg Ala Thr Arg Lys
1 5

<210> 3581
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<400> 3581
Gln Leu Phe Thr Phe Ser Pro Arg Arg
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<210> 3582
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<212> PRT
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<400> 3582
Arg Met Tyr Val Gly Gly Val Glu His Arg
1 5 10

<210> 3583
<211> 9
<212> PRT
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<400> 3583
Leu Ile Phe Cys His Ser Lys Lys Lys
1 5

<210> 3584
<211> 10
<212> PRT
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<400> 3584
Gly Val Ala Gly Ala Leu Val Ala Phe Lys
1 5 10

<210> 3585
<211> 9
<212> PRT
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<400> 3585

Val Ala Gly Ala Leu Val Ala Phe Lys
1 5

<210> 3586
<211> 10
<212> PRT
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<400> 3586
Thr Leu Gly Phe Gly Ala Tyr Met Ser Lys
1 5 10

<210> 3587
<211> 9
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<400> 3587
Val Gly Ile Tyr Leu Leu Pro Asn Arg
1 5

<210> 3588
<211> 9
<212> PRT
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<400> 3588
Leu Pro Gly Cys Ser Phe Ser Ile Phe
1 5

<210> 3589
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<400> 3589
Ile Pro Phe Tyr Gly Lys Ala Ile
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<210> 3590
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<400> 3590
Leu Ser Ala Phe Ser Leu His Ser Tyr
1 5

<210> 3591
<211> 9
<212> PRT
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<400> 3591
Cys Thr Cys Gly Ser Ser Asp Leu Tyr

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<210> 3592

<211> 9

<212> PRT

<213> Hepatitis C Virus

<400> 3592

Phe Trp Ala Lys His Met Trp Asn Phe

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<210> 3593

<211> 15

<212> PRT

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<400> 3593

Ser Lys Gly Trp Arg Leu Leu Ala Pro Ile Thr Ala Tyr Ala Gln

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15

<210> 3594

<211> 20

<212> PRT

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Ala Ala Tyr Ala Ala Gln Gly Tyr Lys Val Leu Val Leu Asn Pro Ser

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15

Val Ala Ala Thr

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<210> 3595

<211> 15

<212> PRT

<213> Hepatitis C Virus

<400> 3595

Gly Arg His Leu Ile Phe Cys His Ser Lys Lys Lys Cys Asp Glu

1

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15

<210> 3596

<211> 15

<212> PRT

<213> Hepatitis C Virus

<400> 3596

Val Val Val Val Ala Thr Asp Ala Leu Met Thr Gly Tyr Thr Gly

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<210> 3597

<211> 15

<212> PRT

<213> Hepatitis C Virus

<400> 3597

Thr Val Asp Phe Ser Leu Asp Pro Thr Phe Thr Ile Glu Thr Thr
1 5 10 15

<210> 3598
<211> 20
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<400> 3598
Asn Phe Ile Ser Gly Ile Gln Tyr Leu Ala Gly Leu Ser Thr Leu Pro
1 5 10 15
Gly Asn Pro Ala
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<210> 3599
<211> 21
<212> PRT
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<400> 3599
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1 5 10 15
Arg Gly Asn His Val
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<210> 3600
<211> 15
<212> PRT
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<400> 3600
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1 5 10 15

<210> 3601
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<212> PRT
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<400> 3601
Ala Ser Cys Leu Arg Lys Leu Gly Val Pro Pro Leu Arg Val Trp
1 5 10 15

<210> 3602
<211> 14
<212> PRT
<213> Clostridium tetanii

<400> 3602
Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
1 5 10

<210> 3603
<211> 21
<212> PRT

<213> Plasmodium falciparum

<400> 3603

Asp Ile Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe
1 5 10 15
Asn Val Val Asn Ser
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<210> 3604

<211> 16

<212> PRT

<213> Streptococcus aureus

<400> 3604

Gly Ala Val Asp Ser Ile Leu Gly Gly Val Ala Thr Tyr Gly Ala Ala
1 5 10 15

<210> 3605

<211> 13

<212> PRT

<213> Artificial Sequence

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<223> pan-DR-epitope peptide

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<222> 1, 13

<223> Xaa = D-alanine or L-alanine

<221> MOD_RES

<222> 3

<223> Xaa = cyclohexylalanine, Phe or Tyr

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Xaa Lys Xaa Val Trp Ala Asn Thr Leu Lys Ala Ala Xaa
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<210> 3606

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Standard Peptide 944.02

<400> 3606

Tyr Leu Glu Pro Ala Ile Ala Lys Tyr
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<210> 3607

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Standard Peptide 944.01

<400> 3607
Phe Leu Pro Ser Asp Tyr Phe Pro Ser Val
1 5 10

<210> 3608
<211> 10
<212> PRT
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<220>
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<400> 3608
Phe Leu Pro Ser Asp Tyr Phe Pro Ser Val
1 5 10

<210> 3609
<211> 10
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<213> Artificial Sequence

<220>
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<400> 3609
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1 5 10

<210> 3610
<211> 10
<212> PRT
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<220>
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Phe Leu Pro Ser Asp Tyr Phe Pro Ser Val
1 5 10

<210> 3611
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<212> PRT
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Phe Leu Pro Ser Asp Tyr Phe Pro Ser Val
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<210> 3612
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Phe Leu Pro Ser Asp Tyr Phe Pro Ser Val
1 5 10

<210> 3613

<211> 9

<212> PRT

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<220>

<223> Standard Peptide 1072.34

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Phe Thr Gln Ala Gly Tyr Pro Ala Leu
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<210> 3614

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Standard Peptide 941.12

<400> 3614

Lys Val Phe Pro Tyr Ala Leu Ile Asn Lys
1 5 10

<210> 3615

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Standard Peptide 940.06

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Ala Val Asp Leu Tyr His Phe Leu Lys
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<210> 3616

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<400> 3616

Lys Val Phe Pro Tyr Ala Leu Ile Asn Lys
1 5 10

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Ser Thr Leu Pro Glu Thr Tyr Val Val Arg Arg
1 5 10

<210> 3618
<211> 10
<212> PRT
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<220>
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<400> 3618
Lys Val Phe Pro Tyr Ala Leu Ile Asn Lys
1 5 10

<210> 3619
<211> 9
<212> PRT
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<220>
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Ala Tyr Ile Asp Asn Tyr Asn Lys Phe
1 5

<210> 3620
<211> 9
<212> PRT
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<220>
<223> Standard Peptide 1075.23

<400> 3620
Ala Pro Arg Thr Leu Val Tyr Leu Leu
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<210> 3621
<211> 9
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<400> 3621

Phe Pro Phe Lys Tyr Ala Ala Ala Phe
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<210> 3622
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<212> PRT
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Phe Pro Phe Lys Tyr Ala Ala Ala Phe
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<212> PRT
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Phe Pro Phe Lys Tyr Ala Ala Ala Phe
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<210> 3625
<211> 13
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<220>
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<400> 3625
Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr
1 5 10

<210> 3626
<211> 12
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<220>

<223> Standard Peptide 829.02

<400> 3626

Tyr Lys Thr Ile Ala Phe Asp Glu Glu Ala Arg Arg
1 5 10

<210> 3627

<211> 13

<212> PRT

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<220>

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<400> 3627

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<210> 3628

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

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Tyr Ala Arg Phe Gln Ser Gln Thr Thr Leu Lys Gln Lys Thr
1 5 10

<210> 3629

<211> 14

<212> PRT

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<223> Standard Peptide 717.01

<400> 3629

Tyr Ala Arg Phe Gln Ser Gln Thr Thr Leu Lys Gln Lys Thr
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<210> 3630

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Standard Peptide 553.01

<400> 3630

Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
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<210> 3631

<211> 14
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<220>
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Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
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<210> 3632
<211> 14
<212> PRT
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<220>
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<400> 3632
Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
1 5 10

<210> 3633
<211> 14
<212> PRT
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<220>
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<400> 3633
Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
1 5 10

<210> 3634
<211> 14
<212> PRT
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<220>
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<400> 3634
Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
1 5 10

<210> 3635
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Standard Peptide 1200.05

<400> 3635
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<210> 3636
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3636
Lys Tyr Ile Lys Ala Asn Ala Lys Phe Ile Gly Ile Thr Glu
1 5 10

<210> 3637
<211> 24
<212> PRT
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<220>
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<400> 3637
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1 5 10 15
Val Thr Pro Arg Thr Pro Pro Pro
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<210> 3638
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Standard Peptide 511

<400> 3638
Asn Gly Gln Ile Gly Asn Asp Pro Asn Arg Asp Ile Leu
1 5 10

<210> 3639
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Standard Peptide 717.01

<400> 3639
Tyr Ala Arg Phe Gln Ser Gln Thr Thr Leu Lys Gln Lys Thr
1 5 10

<210> 3640
<211> 14
<212> PRT
<213> Artificial Sequence

<220>

<223> Standard Peptide 553.01

<400> 3640

Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
1 5 10

<210> 3641

<211> 16

<212> PRT

<213> Hepatitis C Virus

<400> 3641

Gly Gln Ile Val Gly Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg
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<210> 3642

<211> 9

<212> PRT

<213> Artificial Sequence

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<223> HCV analog

<221> MOD_RES

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<223> Xaa = any amino acid

<400> 3642

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<210> 3643

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> HCV analog

<221> MOD_RES

<222> 3

<223> Xaa = any amino acid

<400> 3643

Ala Val Xaa Thr Arg Gly Val Ala Lys
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<210> 3644

<211> 9

<212> PRT

<213> Artificial Sequence

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<223> HCV analog

<221> MOD_RES
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<210> 3645
<211> 9
<212> PRT
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<220>
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<221> MOD_RES
<222> 5
<223> Xaa = any amino acid

<400> 3645
His Leu Ile Phe Xaa His Ser Lys Lys
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<210> 3646
<211> 9
<212> PRT
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<220>
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<221> MOD_RES
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<210> 3647
<211> 9
<212> PRT
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<220>
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<221> MOD_RES
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<223> Xaa = any amino acid

<400> 3647
Leu Ile Phe Xaa His Ser Lys Lys Lys
1 5

<210> 3648

<211> 10
<212> PRT
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<220>
<223> HCV analog

<221> MOD_RES
<222> 9
<223> Xaa = any amino acid

<400> 3648
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1 5 10

<210> 3649
<211> 10
<212> PRT
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<220>
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<221> MOD_RES
<222> 5
<223> Xaa = any amino acid

<400> 3649
His Leu Ile Phe Xaa His Ser Lys Lys Lys
1 5 10

<210> 3650
<211> 10
<212> PRT
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<220>
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<221> MOD_RES
<222> 3
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Ala Ala Xaa Asn Trp Thr Arg Gly Glu Arg
1 5 10

<210> 3651
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> HCV analog

<400> 3651
Tyr Leu Leu Pro Arg Arg Gly Pro Arg Val
1 5 10

<210> 3652
<211> 9
<212> PRT
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<220>
<223> HCV analog

<400> 3652
Phe Pro Gly Cys Ser Phe Ser Ile Phe
1 5

<210> 3653
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3653
Leu Pro Val Cys Ser Phe Ser Ile Phe
1 5

<210> 3654
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> HCV analog

<400> 3654
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1 5

<210> 3655
<211> 9
<212> PRT
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<220>
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<400> 3655
Leu Pro Gly Cys Met Phe Ser Ile Phe
1 5

<210> 3656
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<210> 3657

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Leu Pro Gly Cys Ser Phe Ser Pro Phe
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Leu Pro Gly Cys Ser Phe Ser Ile Ile
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Pro Pro Val Val His Gly Cys Pro Ile
1 5

<210> 3660

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Lys Pro Thr Leu His Gly Pro Thr Pro Ile
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<210> 3661

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Ala Pro Thr Leu Trp Ala Arg Met Ile Ile
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Ser Pro Arg Gly Ser Arg Pro Ser Ile
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<210> 3663

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Leu Pro Arg Arg Gly Pro Arg Leu Gly Ile
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Ser Pro Gly Gln Arg Val Glu Phe Ile
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Leu Pro Gly Cys Ser Phe Ser Ile Ile
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Asp Pro Arg Arg Arg Ser Arg Asn Ile
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Ser Pro Gly Ala Leu Val Val Gly Val Ile
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Thr Pro Leu Leu Tyr Arg Leu Gly Ala Ile
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<210> 3669
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Thr Ile Ser Gly Val Leu Trp Gln Val
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Ser Leu Met Ala Phe Thr Ala Ser Val
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Gly Leu Arg Asp Cys Thr Met Leu Val
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Tyr Leu Leu Pro Ser Arg Gly Pro Lys Leu
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<210> 3675
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<400> 3675

Lys Leu Ser Gly Leu Gly Leu Asn Ala Val
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<210> 3676

<211> 10

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Tyr Val Leu Pro Arg Arg Gly Pro Arg Leu
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<210> 3677

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<220>

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Val Phe Phe Asn Ile Leu Gly Gly Trp Val
1 5 10

<210> 3678

<211> 10

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<400> 3678

Lys Leu Val Ser Leu Gly Val Asn Ala Val
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<210> 3679

<211> 9

<212> PRT

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<400> 3679

Cys Ile Asn Gly Val Cys Trp Thr Ala
1 5

<210> 3680
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<220>
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<400> 3680
Cys Ala Asn Gly Val Cys Trp Thr Val
1 5

<210> 3681
<211> 9
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<220>
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<400> 3681
Cys Val Asn Gly Val Cys Trp Ala Val
1 5

<210> 3682
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<220>
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<221> MOD_RES
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<223> Xaa = Met, Phe, Leu, Ile, Val, Trp or Tyr

<221> MOD_RES
<222> 5
<223> Xaa = any amino acid

<221> MOD_RES
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<223> Xaa = Ile, Val, Met, Ser, Ala, Cys, Thr, Pro or Leu

<221> MOD_RES
<222> 8
<223> Xaa = any amino acid

<221> MOD_RES
<222> 9
<223> Xaa = Ile or Val

<400> 3682
Xaa Met Trp Ala Xaa Xaa Met Xaa Xaa
1 5

<210> 3683
<211> 9
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<220>

<223> HLA DR7-specific deleterious motif

<221> MOD_RES

<222> 1

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<221> MOD_RES

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<223> Xaa = any amino acid

<221> MOD_RES

<222> 6

<223> Xaa = any amino acid

<221> MOD_RES

<222> 7

<223> Xaa = Gly, Arg or Asp

<400> 3683

Xaa Cys Xaa Gly Xaa Xaa Xaa Asn Gly

1

5